

Converting Colors

XYZ(11.5744, 22.2017, 12.9335)

Have a look what the booklet for
XYZ(11.5744, 22.2017, 12.9335)
contains.

XYZ(12.8281, 22.8378, 12.9645)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.8281, 22.8378,
12.9645)**

Conversions

Conversions Part 1

Format	Color
Hex	009758
RGB	0, 151, 88
RGB Percent	0%, 59%, 35%
CMY	1.0000, 0.4078, 0.6549
CMYK	1.00, 0.00, 0.42, 0.41
HSL	155°, 100%, 30%
HSV	155°, 100%, 59%
XYZ	12.8281, 22.8378, 12.9645
YIQ	98.6690, -69.7730, -51.6050

Conversions

Conversions Part 2

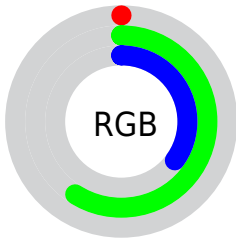
Format	Color
RYB	0, 95, 151
Decimal	38744
CIELab	54.90, -49.15, 23.86
CIELCh	55, 54.634, 154.108
Yxy	22.8378, 0.2638, 0.4696
Android (android.graphics.Color)	4278228824 (0xFF009758)
YUV	98.6690, -5.2598, -86.5327
Hunter-Lab	47.7889, -35.7154, 17.3676

Details

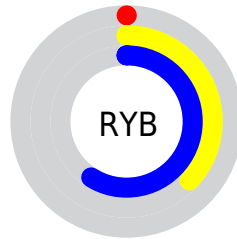
The XYZ color **12.8281, 22.8378, 12.9645** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **13.6607, 6.9388, 5.3239**, and the grayscale version is **11.8031, 12.4177, 13.5229**.

A 20% lighter version of the original color is **30.5693, 47.9851, 32.0770**, and **4.8621, 9.0838, 3.5949** is the 20% darker color. If you saturate the color by 10%, you get **12.8283, 22.8385, 12.9639**, and if you desaturate by 10%, it is **13.2998, 23.0501, 14.4090**.

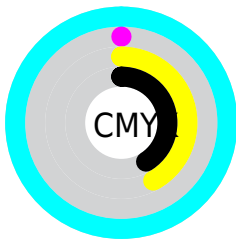
Distribution



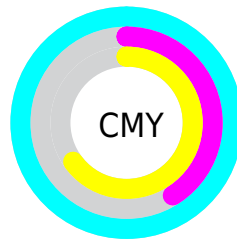
- Red (0%)
- Green (59%)
- Blue (35%)



- Red (0%)
- Yellow (37%)
- Blue (59%)



- Cyan (100%)
- Magenta (0%)
- Yellow (42%)
- Black (41%)



- Cyan (100%)
- Magenta (41%)
- Yellow (65%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8281, 22.8378, 12.9645 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 12.8281, 22.8378, 12.9645 by changing the saturation by 10% instead.

■ 12.8281, 22.8378,
12.9645

■ 12.8281, 22.8378,
12.9645

203.4730,
266.8908, 221.8899

■ 7.3865, 14.4738,
7.2737

■ 30.5986, 48.1269,
31.9302

■ 3.7534, 8.4509,
3.5528

■ 43.6581, 65.8207,
46.0422

■ 1.5636, 4.3848,
1.3834

■ 59.9876, 87.3933,
63.7984

■ 0.3685, 1.8911,
0.1287

■ 79.9526, 113.2289,
85.6171

■ 0.0000, 0.5430,
0.0000

■ 103.9182,
143.7121, 111.9172

■ 0.0000, 0.0000,
0.0000

■ 132.2499,

179.2273, 143.1169

165.3130,
220.1587, 179.6350

■ 12.8281, 22.8378,
12.9645

■ 12.8281, 22.8378,
12.9645

■ 12.8283, 22.8385,
12.9639

■ 13.2998, 23.0501,
14.4090

■ 13.9382, 23.3451,
15.9816

■ 14.8118, 23.7585,
17.6885

■ 15.9477, 24.3045,
19.5338

■ 17.3692, 24.9947,
21.5211

■ 19.0968, 25.8399,
23.6539

■ 21.1491, 26.8496,
25.9356

■ 23.5431, 28.0324,
28.3693

■ 26.2948, 29.3964,
30.9580

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



15.8114, 22.8378, 6.2170



12.8281, 22.8378, 12.9645



12.0428, 22.8378, 27.3320

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



12.8281, 22.8378, 12.9645



22.5513, 22.8378, 75.1448



32.8421, 22.8378, 10.4652

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



12.8281, 22.8378, 12.9645



13.6607, 6.9388, 5.3239

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



35.5110, 22.8378, 22.5538



12.8281, 22.8378, 12.9645



28.9106, 22.8378, 63.9445

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



12.8281, 22.8378, 12.9645



17.0098, 22.8378, 68.5328



33.9535, 22.8378, 42.4506



27.1971, 22.8378, 5.3165

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



12.8281, 22.8378, 12.9645



12.7205, 22.8378, 41.1210



33.9535, 22.8378, 42.4506



34.1603, 22.8378, 13.5835

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



12.8287, 22.8387, 12.9650



37.6331, 47.9638, 46.1894



13.2764, 23.2730, 3.7928



8.2165, 10.7356, 10.1321



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



12.8287, 22.8387, 12.9650



22.8803, 40.8625, 22.7273



15.1018, 21.2656, 32.5879



6.2755, 6.9829, 7.3741



10.9274, 19.4344, 11.1042



0.1815, 0.2978, 0.2613

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



13.6607, 6.9388, 5.3239



24.3763, 12.3908, 9.0751



12.8724, 6.7984, 0.6341



6.3103, 6.2633, 7.0144



11.6344, 5.9080, 4.5998



0.1915, 0.0953, 0.1611

Previews

White Background



This preview shows how the XYZ color 12.8281, 22.8378, 12.9645 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 12.8281, 22.8378, 12.9645 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.8281, 22.8378, 12.9645

Background



This preview shows how black text looks on a background with the XYZ color 12.8281, 22.8378, 12.9645.



This preview shows how white text looks on a background with the XYZ color 12.8281, 22.8378,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

12.8281, 22.8378, 12.9645

Protanopia

20.8920, 22.6514, 10.8605

Deuteranopia

22.8716, 22.4439, 13.7163



Tritanopia

17.3144, 22.8237, 34.5032

Trichromacy



Original Color

12.8281, 22.8378, 12.9645



Protanomaly

14.9642, 21.0256, 11.4533



Deuteranomaly

15.6025, 20.4756, 13.2551



Tritanomaly

15.0688, 22.5538, 25.0318

Monochromacy



Original Color

12.8281, 22.8378, 12.9645



Achromatopsia

11.8596, 12.4772, 13.5877



Achromatomaly

10.5939, 14.8399, 13.1325

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8281, 22.8378, 12.9645 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(0, 151, 88)` looks like.

```
.text, #text, p{  
    color:rgb(0, 151, 88)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(0, 151, 88) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 151, 88) }
```

Border

The CSS property to change the border of an element to XYZ 12.8281, 22.8378, 12.9645 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(0, 151, 88) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(0, 151, 88) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(0, 151, 88)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 151, 88); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 151, 88);  
box-shadow:4px 4px 4px 4px rgb(0, 151, 88)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.8281, 22.8378, 12.9645 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 151, 88) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(0, 151,  
88) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor